



SEQUENCE LISTING

<110> Blaschuk, Orest W.
Michaud, Stephanie D.

<120> COMPOUNDS AND METHODS FOR MODULATING
FUNCTIONS OF NONCLASSICAL CADHERINS

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<140> US 10/714,564

<141> 2003-11-14

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<223> Xaa = Phe or Ala

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Trp Ile Trp Asn Gln

1 5

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Lys Arg Gly Trp Val Trp Asn Gln Phe
1 5

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Asp Trp Ile Trp Asn Gln Met
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5

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5

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5

10

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Ser Trp Met Trp Asn Gln Phe

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 Lys Arg Ser Trp
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<223> Exemplary Trp-containing CAR sequences for
atypical cadherins

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Val Trp Asn Gln Phe

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Val Trp Asn Gln Phe Phe

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atypical cadherins

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Ile Trp Asn Gln Met His

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Trp Asn Gln Met His

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atypical cadherins

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Met Trp Asn Gln

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Met Trp Asn Gln Phe
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Met Trp Asn Gln Phe Phe
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<223> Consensus sequence shared by certain desmosomal
cadherin Trp-containing CAR sequence

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CAR sequence

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CAR sequence

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CAR sequence

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Arg Trp Ala Pro
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Glu Trp Ile Lys Phe

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Glu Trp Ile Lys Phe Ala Ala Ala

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Glu Trp Ile Lys Phe Ala Ala Ala Cys

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Trp Ile Lys Phe Ala Ala Ala
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Glu Trp Val Lys Phe Ala Lys Pro Cys

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Trp Val Lys Phe

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Asp	Arg	Ser	Trp	Val	Trp	Lys
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<400> 1293

Glu Ala Trp Ile Lys

1 5

<210> 1294

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1294

Glu Ala Trp Ile Thr Lys

1 5

<210> 1295

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1295

Glu Ala Trp Ile Thr Ala Lys

1 5

<210> 1296

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1296

Glu Ala Trp Ile Thr Ala Pro Lys

1 5

<210> 1297

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1297

Glu Ala Trp Ile Thr Ala Pro Val Lys

1

5

<210> 1298

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1298

Glu Ala Trp Ile Thr Ala Pro Val Ala Lys

1

5

10

<210> 1299

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1299

Glu Ala Trp Ile Thr Ala Pro Val Ala Leu Lys

1

5

10

<210> 1300

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1300

Glu Trp Ile Thr Lys

1

5

<210> 1301

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Exemplary cyclic peptide

<400> 1301
Glu Trp Ile Thr Ala Lys
1 5

<210> 1302
<211> 7
<212> PRT
<213> Artificial Sequence.

<220>
<223> Exemplary cyclic peptide

<400> 1302
Glu Trp Ile Thr Ala Pro Lys
1 5

<210> 1303
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1303
Glu Trp Ile Thr Ala Pro Val Lys
1 5

<210> 1304
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1304
Glu Trp Ile Thr Ala Pro Val Ala Lys
1 5

<210> 1305
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Exemplary cyclic peptide

<400> 1305

Glu Trp Ile Thr Ala Pro Val Ala Leu Lys
 1 5 10

<210> 1306

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
 modulating agent

<400> 1306

Tyr Ile Gly Ser Arg
 1 5

<210> 1307

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
 modulating agent

<400> 1307

Lys Tyr Ser Phe Asn Tyr Asp Gly Ser Glu
 1 5 10

<210> 1308

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
 modulating agent

<400> 1308

Ser Phe Thr Ile Asp Pro Lys Ser Gly
 1 5

<210> 1309

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Preferred CAR sequence for inclusion with a
 modulating agent

<400> 1309
 Leu Tyr His Tyr
 1

<210> 1310
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Claudin CAR sequence comprising at least four
 consecutive amino acids present within a claudin
 region

<221> VARIANT
 <222> 2
 <223> Xaa = Lys or Arg

<221> VARIANT
 <222> 3
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 4
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 5
 <223> Xaa = Ser or Ala

<221> VARIANT
 <222> 6
 <223> Xaa = Tyr or Phe

<221> VARIANT
 <222> 7
 <223> Xaa = any amino acid

<400> 1310
 Trp Xaa Xaa Xaa Xaa Xaa Gly
 1 5

<210> 1311
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Atypical cadherin CAR sequence comprising at least
 three consecutive amino acids present within an
 atypical cadherin region

<221> VARIANT
 <222> 1,3
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 4
 <223> Xaa = Ile, Leu or Val

<221> VARIANT
 <222> 5
 <223> Xaa = Asp, Asn or Glu

<221> VARIANT
 <222> 6,7
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 8
 <223> Xaa = Ser, Thr or Asn

<400> 1311
 Xaa Phe Xaa Xaa Xaa Xaa Xaa Xaa Gly
 1 5

<210> 1312
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1312
 Ile Tyr Ser Tyr
 1

<210> 1313
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1313
 Thr Ser Ser Tyr
 1

<210> 1314
 <211> 4

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1314
 Val Thr Ala Phe
 1

<210> 1315
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Representative claudin CAR sequence

<400> 1315
 Val Ser Ala Phe
 1

<210> 1316
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1316
 Cys Gly Trp Val Met Asn Gln Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1317
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1317
 Cys Arg Trp Ala Pro Ile Pro Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1318
 <211> 14

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1318
 Cys Gly Trp Val Met Asn Gln Gln Asn Met Val Trp Gly Cys
 1 5 10

<210> 1319
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1319
 Cys Gln Asn Met Val Trp Gly Gly Trp Val Met Asn Gln Cys
 1 5 10

<210> 1320
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1320
 Cys Arg Trp Ala Pro Ile Pro Pro Ile Pro Ala Trp Arg Cys
 1 5 10

<210> 1321
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing CAR sequence in the cyclic peptides
 that may be linked in tandem.

<400> 1321
 Cys Pro Ile Pro Ala Trp Arg Arg Trp Ala Pro Ile Pro Cys
 1 5 10

<210> 1322
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1322
Cys Gly Trp Val Cys
1 5

<210> 1323
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1323
Cys Gly Trp Val Trp Asn Gln Cys
1 5

<210> 1324
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1324
Cys Gly Trp Val Trp Asn Cys
1 5

<210> 1325
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1325
Cys Arg Gly Trp Val Cys
1 5

<210> 1326
<211> 7

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1326
 Cys Arg Gly Trp Val Trp Cys
 1 5

<210> 1327
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1327
 Cys Gly Trp Val Cys Asn
 1 5

<210> 1328
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1328
 Cys Gly Trp Val
 1

<210> 1329
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1329
 Cys Arg Gly Trp Val Trp Asn Gln Phe Cys
 1 5 10

<210> 1330
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<400> 1330

Cys Arg Gly Trp Val Trp Asn Gln Phe Phe Cys
1 5 10

<210> 1331

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<221> MOD_RES

<222> 2

<223> Xaa = beta,beta-tetramethylene cysteine

<400> 1331

Ile Xaa Gly Trp Val Trp Asn Gln Cys Glu
1 5 10

<210> 1332

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<221> MOD_RES

<222> 2

<223> Xaa = beta,beta -pentamethylene cysteine

<400> 1332

Ile Xaa Gly Trp Val Trp Asn Gln Cys
1 5

<210> 1333

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<400> 1333

Gly Trp Val Trp Asn Gln Pro Cys
1 5

<210> 1334
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1334
Cys Arg Trp Ala Pro Cys
1 5

<210> 1335
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1335
Cys Arg Trp Ala Pro Ile Pro Cys
1 5

<210> 1336
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1336
Cys Arg Trp Ala Pro Ile Cys
1 5

<210> 1337
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide used in cyclization

<400> 1337
Cys Arg Trp Ala Pro Ile Pro Cys Cys
1 5

<210> 1338
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1338
 Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys Met
 1 5 10

<210> 1339
 <211> 6
 <212> PRT
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<220>
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<400> 1339
 Cys Arg Trp Ala Cys Asn
 1 5

<210> 1340
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<221> MOD_RES
 <222> 5
 <223> Xaa = penicillamine

<400> 1340
 Cys Arg Trp Ala Xaa
 1 5

<210> 1341
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1341
 Cys Arg Trp Ala Pro Ile Pro Cys Ser Cys
 1 5 10

<210> 1342
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<400> 1342
 Cys Arg Trp Ala Pro Ile Pro Cys Ser Met Cys
 1 5 10

<210> 1343
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<221> MOD_RES
 <222> 2
 <223> Xaa = beta,beta-tetramethylene cysteine

<400> 1343
 Ile Xaa Arg Trp Ala Pro Ile Pro Cys Glu
 1 5 10

<210> 1344
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide used in cyclization

<221> MOD_RES
 <222> 2
 <223> Xaa = beta,beta-pentamethylene cysteine

<400> 1344
 Ile Xaa Arg Trp Ala Pro Ile Pro Cys
 1 5

<210> 1345
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<400> 1345

Arg Trp Ala Pro Ile Pro Cys Cys
1 5

<210> 1346

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization

<400> 1346

Lys Arg Trp Ala Pro Ile Pro Asp
1 5

<210> 1347

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization process

<400> 1347

Glu Asp Ala Cys
1

<210> 1348

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide used in cyclization process

<400> 1348

Asp Cys Cys Ile
1

<210> 1349

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Modulating agent

<400> 1349

Ser His Ala Val Ser Ser
1 5

<210> 1350

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Modulating agent

<400> 1350

Ala His Ala Val Asp Ile
1 5

<210> 1351

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> N-cadherin CAR sequence

<400> 1351

Phe His Leu Arg Ala His Ala Val Asp Ile Asn Gly Asn Gln Val
1 5 10 15

<210> 1352

<211> 48

<212> PRT

<213> Artificial Sequence

<220>

<223> Occludin CAR sequence

<400> 1352

Gly	Val	Asn	Pro	Thr	Ala	Gln	Ser	Ser	Gly	Ser	Leu	Tyr	Gly	Ser	Gln
1				5				10					15		
Ile	Tyr	Ala	Leu	Cys	Asn	Gln	Phe	Tyr	Thr	Pro	Ala	Ala	Thr	Gly	Leu
		20					25						30		
Tyr	Val	Asp	Gln	Tyr	Leu	Tyr	His	Tyr	Cys	Val	Val	Asp	Pro	Gln	Glu
		35				40					45				

<210> 1353

<211> 6

<212> PRT

<213> Artificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1353
 Gly Trp Val Trp Asn Gln
 1 5

<210> 1354
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1354
 Asp Trp Ile Trp Asn Gln
 1 5

<210> 1355
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1355
 Ser Trp Met Trp Asn Gln
 1 5

<210> 1356
 <211> 4
 <212> PRT
 <213> qArtificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1356
 Trp Val Asn Gln
 1

<210> 1357
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Trp-containing cell adhesion recognition sequence

<400> 1357
Gly Trp Met Trp Asn Gln
1 5

<210> 1358
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1358
Asp Val Asn Glu
1

<210> 1359
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1359
Asp Ile Asn Asp Asn
1 5

<210> 1360
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1360
Asp Val Asn Asp Asn
1 5

<210> 1361
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1361

Val Asp Phe Glu
1

<210> 1362
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1362
Asp Ala Asp Glu
1

<210> 1363
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1363
Asp Val Asp Glu
1

<210> 1364
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1364
Asp Glu Asn Asp Asn
1 5

<210> 1365
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1365
Asp Val Asn Asp Glu
1 5

<210> 1366
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1366
Leu Asn Tyr Glu
1

<210> 1367
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1367
Asp Gln Asn Asp Asn
1 5

<210> 1368
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1368
Asp Thr Asn Glu
1

<210> 1369
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Calcium binding motif

<400> 1369
Glu Val Asn Glu
1

<210> 1370
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1370
 Asp Ile Asn Asp
 1

<210> 1371
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Obcad sequence

<400> 1371
 Arg Ser Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Ile Glu Glu
 1 5 10 15
 Tyr Thr Gly Pro Asp Pro Val Leu Val Gly Arg Leu His Ser Asp Ile
 20 25 30
 Asp Ser Gly Asp Gly Asn Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Val Ile Asp Asp Lys Ser Gly Asn Ile His Ala Thr
 50 55 60
 Lys Thr Leu Asp Arg Glu Glu Arg Ala Gln Tyr Thr Leu Met Ala Gln
 65 70 75 80
 Ala Val Asp Arg Asp Thr Asn Arg Pro Leu Glu Pro Pro Ser Glu Phe
 85 90 95
 Ile Val Lys Val Gln Asp Ile Asn Asp Asn Pro Pro Glu Phe
 100 105 110

<210> 1372
 <211> 108
 <212> PRT
 <213> Unknown

<220>
 <223> Cad5 sequence

<400> 1372
 Arg Gln Lys Arg Asp Trp Ile Trp Asn Gln Met His Ile Asp Glu Glu
 1 5 10 15
 Lys Asn Thr Ser Leu Pro His His Val Gly Lys Ile Lys Ser Ser Val
 20 25 30
 Ser Arg Lys Asn Ala Lys Tyr Leu Leu Lys Gly Glu Tyr Val Gly Lys
 35 40 45
 Val Phe Arg Val Asp Ala Glu Thr Gly Asp Val Phe Ala Ile Glu Arg

50		55		60											
Leu	Asp	Arg	Glu	Asn	Ile	Ser	Glu	Tyr	His	Leu	Thr	Ala	Val	Ile	Val
65				70					75					80	
Asp	Lys	Asp	Thr	Gly	Glu	Asn	Leu	Glu	Thr	Pro	Ser	Ser	Phe	Thr	Ile
			85					90						95	
Lys	Val	His	Asp	Val	Asn	Asp	Asn	Trp	Pro	Val	Phe				
			100					105							

<210> 1373
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad6 sequence

<400> 1373
Arg Ser Lys Arg Ser Trp Met Trp Asn Gln Phe Phe Leu Leu Glu Glu
1 5 10 15
Tyr Thr Gly Ser Asp Tyr Gln Tyr Val Gly Lys Leu His Ser Asp Gln
20 25 30
Asp Arg Gly Asp Gly Ser Leu Lys Tyr Ile Leu Ser Gly Asp Gly Ala
35 40 45
Gly Asp Leu Phe Ile Ile Asn Glu Asn Thr Gly Asp Ile Gln Ala Thr
50 55 60
Lys Arg Leu Asp Arg Glu Glu Lys Pro Val Tyr Ile Leu Arg Ala Gln
65 70 75 80
Ala Ile Asn Arg Arg Thr Gly Arg Pro Val Glu Pro Glu Ser Glu Phe
85 90 95
Ile Ile Lys Ile His Asp Ile Asn Asp Asn Glu Pro Ile Phe
100 105 110

<210> 1374
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad7 sequence

<400> 1374
Arg Thr Lys Arg Ser Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
1 5 10 15
Tyr Met Gly Ser Asp Pro Leu Tyr Val Gly Lys Leu His Ser Asp Val
20 25 30
Asp Lys Gly Asp Gly Ser Ile Lys Tyr Ile Leu Ser Gly Glu Gly Ala
35 40 45
Ser Ser Ile Phe Ile Ile Asp Glu Asn Thr Gly Asp Ile His Ala Thr
50 55 60
Lys Arg Leu Asp Arg Glu Glu Gln Ala Tyr Tyr Thr Leu Arg Ala Gln
65 70 75 80
Ala His Asp Arg Leu Thr Asn Lys Pro Val Glu Pro Glu Ser Glu Phe

				85					90					95
Val	Ile	Lys	Ile	Gln	Asp	Ile	Asn	Asp	Asn	Glu	Pro	Lys	Phe	
			100					105					110	

<210> 1375
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad8 sequence

<400> 1375

Arg	Ser	Lys	Arg	Gly	Trp	Val	Trp	Asn	Gln	Met	Phe	Val	Leu	Glu	Glu
1				5					10					15	
Phe	Ser	Gly	Pro	Glu	Pro	Ile	Leu	Val	Gly	Arg	Leu	His	Thr	Asp	Leu
			20					25					30		
Asp	Pro	Gly	Ser	Lys	Lys	Ile	Lys	Tyr	Ile	Leu	Ser	Gly	Asp	Gly	Ala
		35					40					45			
Gly	Thr	Ile	Phe	Gln	Ile	Asn	Asp	Val	Thr	Gly	Asp	Ile	His	Ala	Ile
		50				55				60					
Lys	Arg	Leu	Asp	Arg	Glu	Glu	Lys	Ala	Glu	Tyr	Thr	Leu	Thr	Ala	Gln
65					70				75						80
Ala	Val	Asp	Trp	Glu	Thr	Ser	Lys	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe
				85					90					95	
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Ala	Pro	Glu	Phe		
			100					105					110		

<210> 1376
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad12 sequence

<400> 1376

Arg	Val	Lys	Arg	Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Leu	Glu	Glu
1				5					10					15	
Tyr	Val	Gly	Ser	Glu	Pro	Gln	Tyr	Val	Gly	Lys	Leu	His	Ser	Asp	Leu
			20					25					30		
Asp	Lys	Gly	Glu	Gly	Thr	Val	Lys	Tyr	Thr	Leu	Ser	Gly	Asp	Gly	Ala
		35					40					45			
Gly	Thr	Val	Phe	Thr	Ile	Asp	Glu	Thr	Thr	Gly	Asp	Ile	His	Ala	Ile
		50				55				60					
Arg	Ser	Leu	Asp	Arg	Glu	Lys	Pro	Phe	Tyr	Thr	Leu	Arg	Ala	Gln	
65					70				75					80	
Ala	Val	Asp	Ile	Glu	Thr	Arg	Lys	Pro	Leu	Glu	Pro	Glu	Ser	Glu	Phe
				85					90					95	
Ile	Ile	Lys	Val	Gln	Asp	Ile	Asn	Asp	Asn	Glu	Pro	Lys	Phe		
			100					105					110		

<210> 1377
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> Cad14 sequence

<400> 1377
 Arg Pro Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Leu Glu Glu
 1 5 10 15
 His Met Gly Pro Asp Pro Gln Tyr Val Gly Lys Leu His Ser Asn Ser
 20 25 30
 Asp Lys Gly Asp Gly Ser Val Lys Tyr Ile Leu Thr Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Ile Ile Asp Asp Thr Thr Gly Asp Ile His Ser Thr
 50 55 60
 Lys Ser Leu Asp Arg Glu Gln Lys Thr His Tyr Val Leu His Ala Gln
 65 70 75 80
 Ala Ile Asp Arg Arg Thr Asn Lys Pro Leu Glu Pro Glu Ser Glu Phe
 85 90 95
 Ile Ile Lys Val Gln Asp Ile Asn Asp Asn Ala Pro Lys Phe
 100 105 110

<210> 1378
 <211> 110
 <212> PRT
 <213> unknown

<220>
 <223> PBcad sequence

<400> 1378
 Arg Val Lys Arg Gly Trp Val Trp Asn Gln Phe Phe Val Val Glu Glu
 1 5 10 15
 Tyr Thr Gly Thr Glu Pro Leu Tyr Val Gly Lys Ile His Ser Asp Ser
 20 25 30
 Asp Glu Gly Asp Gly Thr Ile Lys Tyr Thr Ile Ser Gly Glu Gly Ala
 35 40 45
 Gly Thr Ile Phe Leu Ile Asp Glu Leu Thr Gly Asp Ile His Ala Thr
 50 55 60
 Glu Arg Leu Asp Arg Glu Gln Lys Thr Phe Tyr Thr Leu Arg Ala Gln
 65 70 75 80
 Ala Arg Asp Arg Ala Thr Asn Arg Leu Leu Glu Pro Glu Ser Glu Phe
 85 90 95
 Ile Ile Lys Val Gln Asp Ile Asn Asp Ser Glu Pro Arg Phe
 100 105 110

<210> 1379
 <211> 106
 <212> PRT

<213> Homo sapiens

<400> 1379

Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Ile	Glu	Glu	Tyr	Thr	Gly	Pro
1				5					10					15	
Asp	Pro	Val	Leu	Val	Gly	Arg	Leu	His	Ser	Asp	Ile	Asp	Ser	Gly	Asp
		20						25					30		
Gly	Asn	Ile	Lys	Tyr	Ile	Leu	Ser	Gly	Glu	Gly	Ala	Gly	Thr	Ile	Phe
	35					40						45			
Val	Ile	Asp	Asp	Lys	Ser	Gly	Asn	Ile	His	Ala	Thr	Lys	Thr	Leu	Asp
	50					55					60				
Arg	Glu	Glu	Arg	Ala	Gln	Tyr	Thr	Leu	Met	Ala	Gln	Ala	Val	Asp	Arg
65					70					75					80
Asp	Thr	Asn	Arg	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe	Ile	Val	Lys	Val
			85						90					95	
Gln	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Glu	Phe						
			100					105							

<210> 1380

<211> 106

<212> PRT

<213> Mus musculus

<400> 1380

Gly	Trp	Val	Trp	Asn	Gln	Phe	Phe	Val	Ile	Glu	Glu	Tyr	Thr	Gly	Pro
1				5					10					15	
Asp	Pro	Val	Leu	Val	Gly	Arg	Leu	His	Ser	Asp	Ile	Asp	Ser	Gly	Asp
		20						25					30		
Gly	Asn	Ile	Lys	Tyr	Ile	Leu	Ser	Gly	Glu	Gly	Ala	Gly	Thr	Ile	Phe
	35					40						45			
Val	Ile	Asp	Asp	Lys	Ser	Gly	Asn	Ile	His	Ala	Thr	Lys	Thr	Leu	Asp
	50					55					60				
Arg	Glu	Glu	Arg	Ala	Gln	Tyr	Thr	Leu	Met	Ala	Gln	Ala	Val	Asp	Arg
65					70					75					80
Asp	Thr	Asn	Arg	Pro	Leu	Glu	Pro	Pro	Ser	Glu	Phe	Ile	Val	Lys	Val
			85						90					95	
Gln	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Glu	Phe						
			100					105							

<210> 1381

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Calcium binding motif

<400> 1381

Val Asp Tyr Glu

1

<210> 1382
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1382
 Asp Asp Asn Asp Asn
 1 5

<210> 1383
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1383
 Asp Tyr Asn Asp Asn
 1 5

<210> 1384
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Calcium binding motif

<400> 1384
 Asp Ser Asn Asp Asn
 1 5

<210> 1385
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1385
 Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1 5 10 15
 Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
 20 25 30
 Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
 35 40 45
 Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
 50 55 60
 Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala

65		70		75		80									
Leu	Asn	Ser	Met	Gly	Gln	Asp	Leu	Glu	Arg	Pro	Leu	Glu	Leu	Arg	Val
				85					90					95	
Arg	Val	Leu	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Val	Phe				
			100					105							

<210> 1386
 <211> 108
 <212> PRT
 <213> Bos tarus

<400> 1386
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
20 25 30
Gln Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
35 40 45
Gly Ile Phe Val Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
50 55 60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Ile Tyr Cys Arg Ala
65 70 75 80
Leu Asn Ser Leu Gly Gln Asp Leu Glu Lys Pro Leu Glu Leu Arg Val
85 90 95
Arg Val Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
100 105

<210> 1387
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 1387
Ala Trp Ile Thr Ala Pro Val Ala Leu Arg Glu Gly Glu Asp Leu Ser
1 5 10 15
Lys Lys Asn Pro Ile Ala Lys Ile His Ser Asp Leu Ala Glu Glu Arg
20 25 30
Gly Leu Lys Ile Thr Tyr Lys Tyr Thr Gly Lys Gly Ile Thr Glu Pro
35 40 45
Pro Phe Gly Ile Phe Val Phe Asn Lys Asp Thr Gly Glu Leu Asn Val
50 55 60
Thr Ser Ile Leu Asp Arg Glu Glu Thr Pro Phe Phe Leu Leu Thr Gly
65 70 75 80
Tyr Ala Leu Asp Ala Arg Gly Asn Asn Val Glu Lys Pro Leu Glu Leu
85 90 95
Arg Ile Lys Val Leu Asp Ile Asn Asp Asn Glu Pro Val Phe
100 105 110

<210> 1388
 <211> 108
 <212> PRT

<213> Homo sapiens

<400> 1388

```

Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Gly Glu Asp Asn Ser
 1           5           10           15
Lys Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Tyr Gln Ala Thr Gln
          20           25           30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
      35           40           45
Gly Ile Phe Val Val Asp Lys Asn Thr Gly Asp Ile Asn Ile Thr Ala
 50           55           60
Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
65           70           75           80
Leu Asn Ala Gln Gly Leu Asp Val Glu Lys Pro Leu Ile Leu Thr Val
          85           90           95
Lys Ile Leu Asp Ile Asn Asp Asn Pro Pro Val Phe
      100           105

```

<210> 1389

<211> 108

<212> PRT

<213> Mus musculus

<400> 1389

```

Glu Trp Val Lys Phe Ala Lys Pro Cys Arg Glu Arg Glu Asp Asn Ser
 1           5           10           15
Arg Arg Asn Pro Ile Ala Lys Ile Thr Ser Asp Phe Gln Lys Asn Gln
          20           25           30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Phe
      35           40           45
Gly Ile Phe Val Val Asp Pro Asn Asn Gly Asp Ile Asn Ile Thr Ala
 50           55           60
Ile Val Asp Arg Glu Glu Thr Pro Ser Phe Leu Ile Thr Cys Arg Ala
65           70           75           80
Leu Asn Ala Leu Gly Gln Asp Val Glu Arg Pro Leu Ile Leu Thr Val
          85           90           95
Lys Ile Leu Asp Val Asn Asp Asn Pro Pro Ile Phe
      100           105

```

<210> 1390

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1390

```

Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
 1           5           10           15
Lys Arg Asn Pro Ile Ala Lys Ile Arg Ser Asp Cys Glu Ser Asn Gln
          20           25           30
Lys Ile Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Arg Pro Pro Tyr
      35           40           45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser

```

50		55		60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile Tyr Cys Arg Ala				
65		70		75
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val				
	85		90	95
Lys Val Met Asp Ile Asn Asp Asn Ala Pro Val Phe				
100		105		

<210> 1391
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1391
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Arg Ile Arg Ser Asp Cys Glu Val Ser Gln
20 25 30
Arg Ile Thr Tyr Arg Ile Ser Gly Ala Gly Ile Asp Arg Pro Pro Tyr
35 40 45
Gly Val Phe Thr Ile Asn Pro Arg Thr Gly Glu Ile Asn Ile Thr Ser
50 55 60
Val Val Asp Arg Glu Ile Thr Pro Leu Phe Leu Ile His Cys Arg Ala
65 70 75 80
Leu Asn Ser Arg Gly Glu Asp Leu Glu Arg Pro Leu Glu Leu Arg Val
85 90 95
Lys Val Met Asp Val Asn Asp Asn Pro Pro Val Phe
100 105

<210> 1392
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1392
Glu Trp Ile Lys Phe Ala Ala Ala Cys Arg Glu Gly Glu Asp Asn Ser
1 5 10 15
Lys Arg Asn Pro Ile Ala Lys Ile His Ser Asp Cys Ala Ala Asn Gln
20 25 30
Pro Val Thr Tyr Arg Ile Ser Gly Val Gly Ile Asp Gln Pro Pro Tyr
35 40 45
Gly Ile Phe Ile Ile Asn Gln Lys Thr Gly Glu Ile Asn Ile Thr Ser
50 55 60
Ile Val Asp Arg Glu Val Thr Pro Phe Phe Ile Tyr Cys Arg Ala
65 70 75 80
Leu Asn Ala Gln Gly Gln Asp Leu Glu Asn Pro Leu Glu Leu Arg Val
85 90 95
Arg Val Met Asp Ile Asn Asp Asn Pro Pro Val Phe
100 105

<210> 1393

<211> 108
 <212> PRT
 <213> Mus musculus

<400> 1393

Glu	Trp	Ile	Lys	Phe	Ala	Ala	Ala	Cys	Arg	Glu	Gly	Glu	Asp	Asn	Ser
1				5					10					15	
Lys	Arg	Asn	Pro	Ile	Ala	Lys	Ile	His	Ser	Asp	Cys	Ala	Ala	Asn	Gln
		20						25					30		
Pro	Val	Thr	Tyr	Arg	Ile	Ser	Gly	Val	Gly	Ile	Asp	Gln	Pro	Pro	Tyr
		35					40					45			
Gly	Ile	Phe	Ile	Ile	Asn	Gln	Lys	Thr	Gly	Glu	Ile	Asn	Ile	Thr	Ser
	50					55					60				
Ile	Val	Asp	Arg	Glu	Val	Thr	Pro	Phe	Phe	Ile	Ile	Tyr	Cys	Arg	Ala
65					70					75					80
Leu	Asn	Ala	Gln	Gly	Gln	Asp	Leu	Glu	Asn	Pro	Leu	Glu	Leu	Arg	Val
			85						90					95	
Arg	Val	Met	Asp	Ile	Asn	Asp	Asn	Pro	Pro	Val	Phe				
			100					105							

<210> 1394
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1394

Arg	Trp	Ala	Pro	Ile	Pro	Ala	Ser	Leu	Met	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Gln	His	Val	Gln	Gln	Ile	Gln	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
		20						25					30		
Thr	Ile	Phe	Tyr	Ser	Ile	Ser	Gly	Pro	Gly	Val	Asp	Lys	Glu	Pro	Phe
		35					40					45			
Asn	Leu	Phe	Tyr	Ile	Glu	Lys	Asp	Thr	Gly	Asp	Ile	Phe	Cys	Thr	Arg
	50					55					60				
Ser	Ile	Asp	Arg	Glu	Lys	Tyr	Glu	Gln	Phe	Ala	Leu	Tyr	Gly	Tyr	Ala
65					70					75					80
Thr	Thr	Ala	Asp	Gly	Tyr	Ala	Pro	Glu	Tyr	Pro	Leu	Pro	Leu	Ile	Ile
			85						90					95	
Lys	Ile	Glu	Asp	Asp	Asn	Asp	Asn	Ala	Pro	Tyr	Phe				
			100					105							

<210> 1395
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 1395

Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Leu	Met	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Gln	His	Ile	Gln	Gln	Ile	Gln	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
		20						25					30		
Thr	Ile	Phe	Tyr	Ser	Ile	Ser	Gly	Pro	Gly	Val	Asp	Lys	Glu	Pro	Tyr

```

      35              40              45
Asn Leu Phe Tyr Ile Glu Lys Asp Thr Gly Asp Ile Tyr Cys Thr Arg
  50              55              60
Ser Ile Asp Arg Glu Gln Tyr Asp Gln Phe Leu Val Tyr Gly Tyr Ala
  65              70              75              80
Thr Thr Ala Asp Gly Tyr Ala Pro Asp Tyr Pro Leu Pro Leu Leu Phe
              85              90              95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
      100              105

```

<210> 1396

<211> 108

<212> PRT

<213> Bos tarus

<400> 1396

```

Arg Trp Ala Pro Ile Pro Cys Ser Leu Met Glu Asn Ser Leu Gly Pro
  1              5              10              15
Phe Pro Gln His Val Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr
      20              25              30
Thr Ile Phe Tyr Ser Ile Ser Gly Pro Gly Val Asp Lys Glu Pro Phe
      35              40              45
Asn Leu Phe Phe Ile Glu Lys Asp Thr Gly Asp Ile Phe Cys Thr Arg
  50              55              60
Ser Ile Asp Arg Glu Gln Tyr Gln Glu Phe Pro Ile Tyr Ala Tyr Ala
  65              70              75              80
Thr Thr Ala Asp Gly Tyr Ala Pro Glu Tyr Pro Leu Pro Leu Val Phe
      85              90              95
Lys Val Glu Asp Asp Asn Asp Asn Ala Pro Tyr Phe
      100              105

```

<210> 1397

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1397

```

Arg Trp Ala Pro Ile Pro Cys Ser Met Leu Glu Asn Ser Leu Gly Pro
  1              5              10              15
Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Thr Ala Gln Asn Tyr
      20              25              30
Thr Ile Tyr Tyr Ser Ile Arg Gly Pro Gly Val Asp Gln Glu Pro Arg
      35              40              45
Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Tyr Cys Thr Arg
  50              55              60
Pro Val Asp Arg Glu Gln Tyr Glu Ser Phe Glu Ile Ile Ala Phe Ala
  65              70              75              80
Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Ile Ile
      85              90              95
Lys Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
      100              105

```

<210> 1398
 <211> 108
 <212> PRT
 <213> *Canis familiaris*

<400> 1398
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Ile Gln Ser Asp Thr Ala Gln Asn Tyr
 20 25 30
 Thr Ile Phe Tyr Ser Ile Arg Gly Pro Gly Val Asp Arg Glu Pro Lys
 35 40 45
 Asn Leu Phe Tyr Val Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Glu Ser Phe Glu Leu Ile Ala Phe Ala
 65 70 75 80
 Thr Thr Pro Asp Gly Tyr Thr Pro Glu Leu Pro Leu Pro Leu Val Ile
 85 90 95
 Arg Ile Glu Asp Glu Asn Asp Asn Tyr Pro Ile Phe
 100 105

<210> 1399
 <211> 108
 <212> PRT
 <213> *Homo sapiens*

<400> 1399
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Glu Ser Asp Ala Ala Gln Asn Tyr
 20 25 30
 Thr Val Phe Tyr Ser Ile Ser Gly Arg Gly Val Asp Lys Glu Pro Leu
 35 40 45
 Asn Leu Phe Tyr Ile Glu Arg Asp Thr Gly Asn Leu Phe Cys Thr Arg
 50 55 60
 Pro Val Asp Arg Glu Glu Tyr Asp Val Phe Asp Leu Ile Ala Tyr Ala
 65 70 75 80
 Ser Thr Ala Asp Gly Tyr Ser Ala Asp Leu Pro Leu Pro Leu Pro Ile
 85 90 95
 Arg Val Glu Asp Glu Asn Asp Asn His Pro Val Phe
 100 105

<210> 1400
 <211> 108
 <212> PRT
 <213> *Mus musculus*

<400> 1400
 Arg Trp Ala Pro Ile Pro Cys Ser Met Gln Glu Asn Ser Leu Gly Pro
 1 5 10 15
 Phe Pro Leu Phe Leu Gln Gln Val Gln Ser Asp Ala Ala Gln Asn Tyr

		20						25						30					
Thr	Val	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Ala	Asp	Gln	Glu	Pro	Leu				
		35					40					45							
Asn	Trp	Phe	Phe	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Tyr	Cys	Thr	Arg				
	50					55					60								
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Asp	Val	Phe	Asp	Leu	Ile	Ala	Tyr	Ala				
65					70					75					80				
Ser	Thr	Ala	Asp	Gly	Tyr	Ser	Ala	Asp	Leu	Pro	Leu	Pro	Leu	Pro	Ile				
				85					90					95					
Lys	Ile	Glu	Asp	Glu	Asn	Asp	Asn	Tyr	Pro	Leu	Phe								
		100						105											

```
<210> 1401
<211> 108
<212> PRT
<213> Bos tarus
```

<400> 1401															
Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Gln	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Ile	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Val	Asp	Lys	Glu	Pro	Leu
		35					40					45			
Asn	Leu	Phe	Phe	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Tyr	Cys	Thr	Gln
	50					55					60				
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Asp	Val	Phe	Asp	Leu	Ile	Ala	Tyr	Ala
65					70					75					80
Ser	Thr	Ala	Asp	Gly	Tyr	Ser	Ala	Asp	Phe	Pro	Leu	Pro	Leu	Pro	Ile
				85					90					95	
Arg	Val	Glu	Asp	Glu	Asn	Asp	Asn	His	Pro	Ile	Phe				
			100					105							

```
<210> 1402
<211> 108
<212> PRT
<213> Homo sapiens
```

<400> 1402															
Arg	Trp	Ala	Pro	Ile	Pro	Cys	Ser	Met	Gln	Glu	Asn	Ser	Leu	Gly	Pro
1				5					10					15	
Phe	Pro	Leu	Phe	Leu	Gln	Gln	Val	Glu	Ser	Asp	Ala	Ala	Gln	Asn	Tyr
			20					25					30		
Thr	Val	Phe	Tyr	Ser	Ile	Ser	Gly	Arg	Gly	Val	Asp	Lys	Glu	Pro	Leu
		35					40					45			
Asn	Leu	Phe	Tyr	Ile	Glu	Arg	Asp	Thr	Gly	Asn	Leu	Phe	Cys	Thr	Arg
	50					55					60				
Pro	Val	Asp	Arg	Glu	Glu	Tyr	Asp	Val	Phe	Asp	Leu	Ile	Ala	Tyr	Ala
65				70					75					80	
Ser	Thr	Ala	Asp	Gly	Tyr	Ser	Ala	Asp	Leu	Pro	Leu	Pro	Leu	Pro	Ile
				85					90					95	
Arg	Val	Glu	Asp	Glu	Asn	Asp	Asn	His	Pro	Val	Phe				
			100					105							